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IN THE UNITED STATES PATENT & TRADEMARK OFFICE

IN RE APPLICATION OF

AKIHIKO FUJII, ET AL.

: EXAMINER: KING, FELICIA C.

SERIAL NO: 10/586,609

:

FILED: JULY 19, 2006

: GROUP ART UNIT: 1794

FOR: COFFEE DRINK COMPOSITION

:

DECLARATION UNDER 37 C.F.R. §1.132

COMMISSIONER FOR PATENTS
ALEXANDRIA, VIRGINIA 22313

SIR:

Now comes Hideo Ohminami who deposes and declares that:

1. I am a graduate of Kyoto Pharmaceutical University and received my master's degree in the year 2001.
2. I have been employed by the Kao Corporation for the past 7 years, as a researcher in the field of organic chemistry.
3. The following experiments were conducted by me or under my direct supervision and control.

10 g of ground Costa-Rican coffee beans (medium roasted, medium grind) were intimately mixed with 1.25 g of activated carbon (Wako Pure Chemicals, Ltd, median particle size 0.3 mm (residue 0.3 mm max 40%, 0.3 to 0.063 mm min 50%, pass 0.063 mm max 10%). 25 mL of boiling water was poured onto the mixture and after 5 minutes of standing still, coffee beans and activated carbon were removed by filtration. The hydroxyhydroquinone (HHQ) and chlorogenic acid contents were determined by HPLC as follows:

HHQ concentration: 0.00112 wt. %

Chlorogenic acid concentration: 0.46549 wt. %

HHQ/chlorogenic acid ratio 0.0024

I declare under penalty of perjury under the laws of the United States of America
that the foregoing is believed to be true and correct. 28 USC 1746(1)

Hideo Ohminami

Apr. 10, 2009
Date